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enlarged, with numerous full-page illustrations and exquisite wood-cuts drawn by Kretschmer, Mützel, and Schmidt. The work is to be published in from forty to forty-five parts, of which ten have been received in this country, a part being issued every week or fortnight. The work has received the notice and praise of Darwin, Carus, Dr. Petermann, Von Tschudi, and Dr. Rohlfs. The subscription price in Germany is one mark (or about twenty-five cents). The agents for the United States are B. Westermann & Co., 524 Broadway, New York.

## PROCEEDINGS OF SOCIETIES.

National Academy of Sciences. Washington, April 17–20. — The following new members were elected: Elliott Coues, U. S. A., Washington, D. C.; J. W. Draper, New York; Henry Draper, New York; S. H. Scudder, Cambridge, Mass.; C. S. Peirce, Cambridge, Mass. Following are the titles of the papers on natural science: On the Young Stages of some Osseous Fishes, the Results of Deep-Sea Dredgings, by Alexander Agassiz; On Critical Periods in the History of the Earth, and their Relations to Evolution, and on the Quarternary at such a Period; On the Structure of the Crystalline Lens and its Relative Periscopism, by Joseph Le Conte; On the Structure of the Henry Mountains, by G. K. Gilbert; On the Public Domain, by J. W. Powell; Remarks on some Artesian Wells along the Line of the Union Pacific Railroad in Wyoming Territory, by F. V. Hayden.

American Philosophical Society. Philadelphia, January 5, 1877. — Mr. Britton exhibited specimens of artificial fuel manufactured from the peat-bogs near Syracuse, New York, and remarked its resemblance to the lignite of southwest Arkansas. Professor Lesley read characteristic portions of a paper by Mr. Lesquereux, introductory to the Flora of the Carboniferous of North America, now in preparation for the Report of Progress of the Second Geological Survey of Pennsylvania.

January 19, 1877. — Professor Lesley presented a paper on the first systematic collection and discussion of the Venango Company Oil Wells of Western Pensylvania, by E. S. Nettleton, C. E. General Kane read a description of his recent explorations in Coahuila, exhibiting photographs of Mexicans and describing the migrations of Indians.

February 2, 1877. — Professor Cope exhibited some fragmentary crania of *Dinosauria* from the Judith River beds of Montana, and described their structural and systematic characters. He also read a paper entitled A Continuation of Researches among the Batrachia of the Coal Measures of Ohio.

February 10, 1877. — The secretary read a paper by Alexander E. Outerbridge, Jr., on the Wonderful Divisibility of Metallic Gold. Professor Lesley read a communication entitled, A Measured Section of the Palæozoic Rocks of Central Pennsylvania from the Top of the Alleghany River Coal Series (on the Broad Top) down to the Trenton Limestone in the Lower or Cambro-Silurian System, by Chas. A. Ashburner. General Kane resumed the reading of his paper on the ethnological movements taking place in Northern Mexico. Professor Cope exhibited and described fragments of the fossilized skeleton of a gigantic Dinosaurian, found by Prof. J. S. Newberry, in Painted Cañon in southeastern Utah, when acting as geologist to the expedition across New Mexico to the Junction of the Green and Grand rivers under Captain McComb, U. S. A. This fossil was derived from supposed Triassic beds, and was named *Dystrophæus viæmalæ.* Professor Cope exhibited drawings of supposed Indian sculptures in the form of a dial or zodiac, said to have been recently discovered near Davenport, Iowa, in an Indian mound.

March 2, 1877. — Professor Cope exhibited the fossil skeletons of two species of *Elasmosaurus* from the cretaceous formations of the West. One of these measuring thirty-five feet in length, from the Niobrara Cretaceous of Nebraska, was regarded as representing a new species and was called *E. serpentinus.* The other, represented by seventy-six vertebra from the Fort Pierre group of Montana, was identified with the *E. orientalis*, of New Jersey. Professor Cope read a description of a new form of Proboscidian allied to *Dinotherium* and *Mastodon*, which he called *Cœnobasileus tremontigerus.*

March 10, 1877. — Professor Lesley communicated a paper entitled Notes on the Results of the Survey of the Iron Ore Beds of the Juniata District of the Geological Survey of Pennsylvania, by J. W. Dewees. Professor Cope exhibited the cast of the brain cavity of the *Coryphodon elephantopus* from the Wasatch Eocene of New Mexico, derived from the collections made by Lieut. G. M. Wheeler, U. S. A., and described its characters, which led him to the conclusion that the *Amblypoda* should be referred with the *Bunotheria* to a distinct sub-class of the Mammalia, which he called the *Protencephala.* He stated that the brains of the following genera conformed to this type: *Coryphodon, Uintatherium, Oxyæna, Arctocyon.*

April 6, 1877. — The secretary communicated for Dr. D. G. Brinton a paper on the Timucua Language, by Albert S. Gatschet. The secretary read a communication from Mr. C. E. Hall describing the late discoveries of *Eurypterus* in northwestern Pennsylvania by Messrs. Carll and Mansfield.

April 20, 1877. — Mr. Britton read a paper on the value of pressed peat as an article of fuel. Professor Frazer presented a paper on the cause of the northwest dip of the Mesozoic rocks in Eastern Pennsylvania, and on the origin of the magnetic and specular iron ore banks in the Mesozoic and Azoic rocks of the same region.

May 4, 1877. — Professor Cope read a paper on the structure of the brain in *Procamelus* as derived from a cast of the cavity of a skull obtained by himself near Santa Fé, while on Lieut. G. M. Wheeler's surveying expedition. He also read a paper entitled A Synopsis of the cold blooded Vertebrata obtained by Prof. Jas. Orton in Peru, during the explorations of 1876–77. A number of species were described from the high valleys of the Andes, from 10,000 to 14,500 feet altitude.

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## SCIENTIFIC SERIALS.[1]

MONTHLY MICROSCOPICAL JOURNAL. — April. Additional Note on the Identity of *Navicula crassinervis*, *Frustulia saxonica*, and *N. rhomboides*, by W. H. Dallinger. The Exhibitor; a novel Apparatus for showing Diatoms, etc., by S. G. Osborne. On the Phytoptus of the Vine, by G. Briosi. A Mode of altering the Focus of a Microscope without altering the Position of either the Objective or the Object, by M. Gori.

THE GEOLOGICAL MAGAZINE. — April. What is a Brachiopod? by T. Davidson. Notes on the Geology of the Lebanon, by E. R. Lewis. Ettinshausen's Theory of Development of Vegetation on the Earth.

ANNALES DES SCIENCES NATURELLES. — February 15th. Anatomie de la Moule commune (*Mytilus edulis*), par A. Sabatier. (Nine Plates.)

ANNALS AND MAGAZINE OF NATURAL HISTORY. — April. On the Distribution of Birds in North Russia, by J. A. H. Brown. Description of some Sponges obtained during a Cruise of the Steam Yacht Argo" in the Caribbean and Neighboring Seas, by T. Higgin. Hermaphroditism in the parasitic Isopoda, Further Remarks on Mr. Bullar's Papers on the above subject, by H. N. Moseley.

ARCHIV FÜR NATURGESCHICHTE. — Jahrgang 43, Heft 1. Ueber den Bau des Bojanus' schen Organes der Teichmuschel, von H. A. Griesbach. Ueber das Eierlegen einiger Locustiden, von Dr. Bertkau.

POPULAR SCIENCE REVIEW. — London, April. Evidences of the Age of Ice, by H. Woodward. On the Desmids and Diatoms simple Cells, by G. C. Wallich. The Norwegian Lemming and its Migrations, by W. D. Crotch. The Alkaline and Boracic Lakes of California, by J. A. Phillips.

APPALACHIA. — March. Geology of the White Mountains (with Map of the White Mountain District, showing Locations of specimens and contour Lines for each 500 feet above the sea), by C. H. Hitchcock. Carter Dome and Vicinity, by W. G. Nowell. Distant Points visible from Mount Washington, by W. H. Pickering. Application of Photography to Mountain Surveys, by J. B. Henck, Jr. The Flowering Plants of the White Mountains, by J. H. Huntington.

THE GEOGRAPHICAL MAGAZINE. — April. The Arctic Sledge Journals (Map). Chile. The River Purûs in its Commercial and Geographical Relations to the Valley of the Madeira (with Map of Purûs and Madeira Rivers), by E. G. Ravenstein. Indian Marine Surveys.

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[1] The articles enumerated under this head will be for the most part selected.